

MISCELLANEOUS MANUFACTURING CORPORATION

CATALOG NO. 13M

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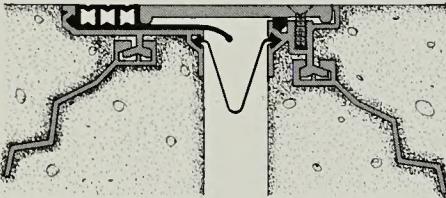
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floor assemblies

1" expansion

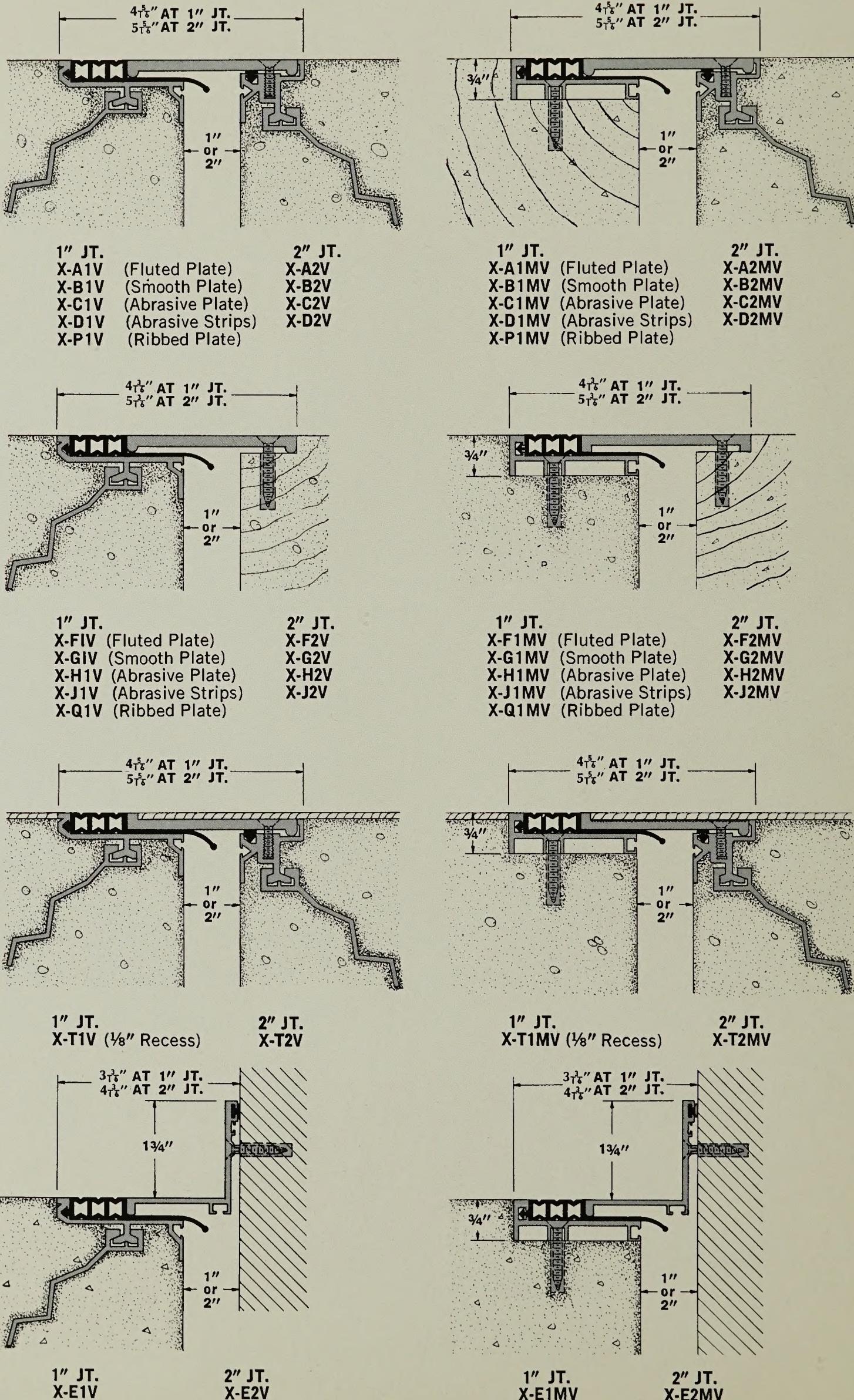
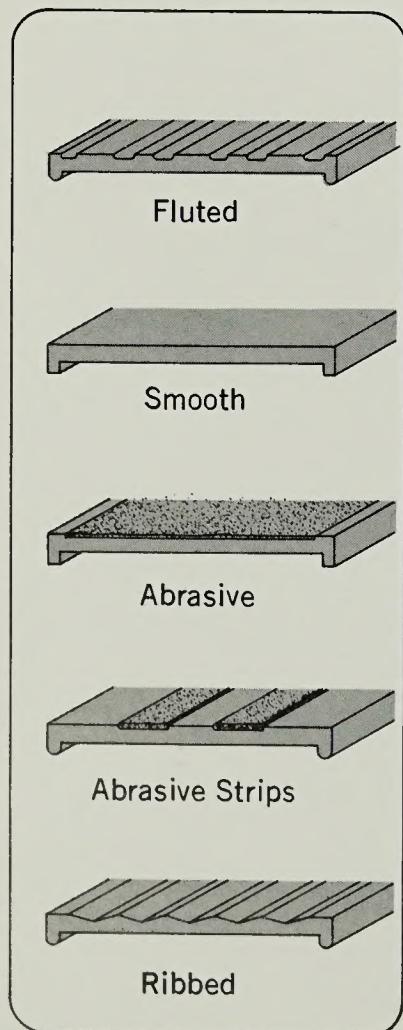
The expansion joint assemblies shown in this catalog are all custom designed to provide the ultimate in appearance and quality. The aluminum components are of rugged 6063-T5 alloy. The filler strips are aluminum color abrasive resistant vinyl (polyvinyl-chloride) designed to lock into the aluminum extrusion. Rubber cork filler strips are also available. Anchors and fasteners are spaced 24" o.c. Components in contact with fresh concrete are protected with factory coat of zinc chromate. All assemblies are carried 20'-0" stock lengths or can be provided cut to exact length required.



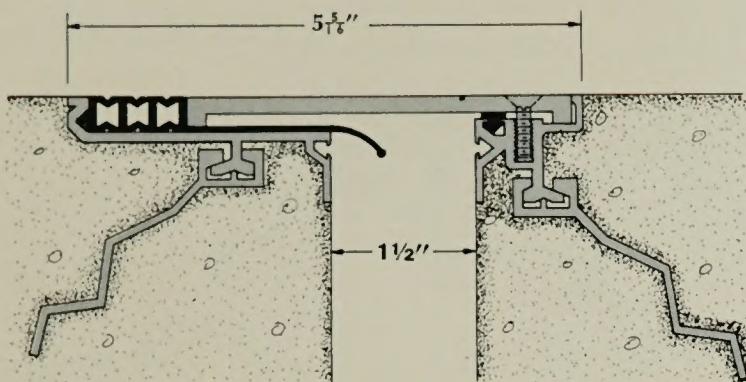
WATERSTOPS

Available for all Floor Assemblies
Specify by adding "WS" after style

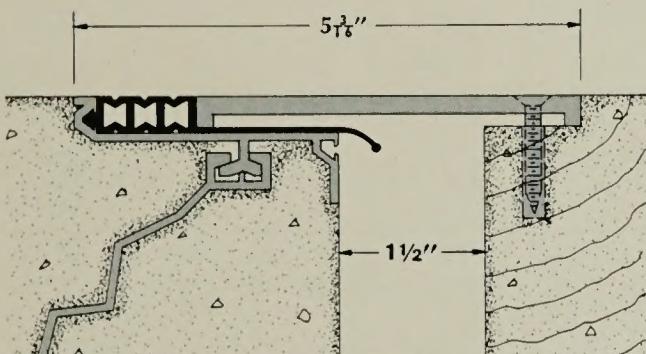
PLATES AVAILABLE



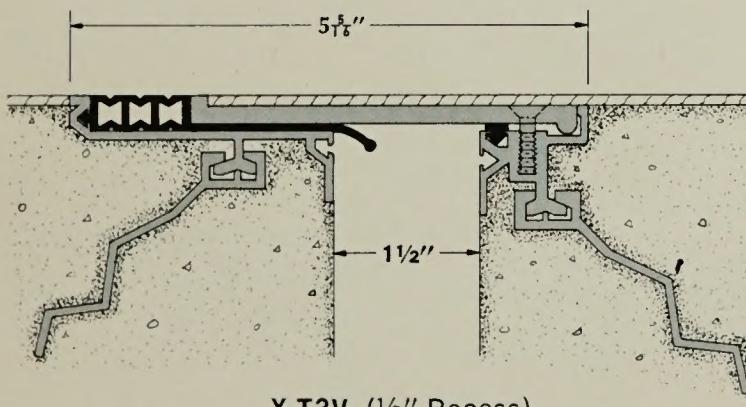
1½" expansion



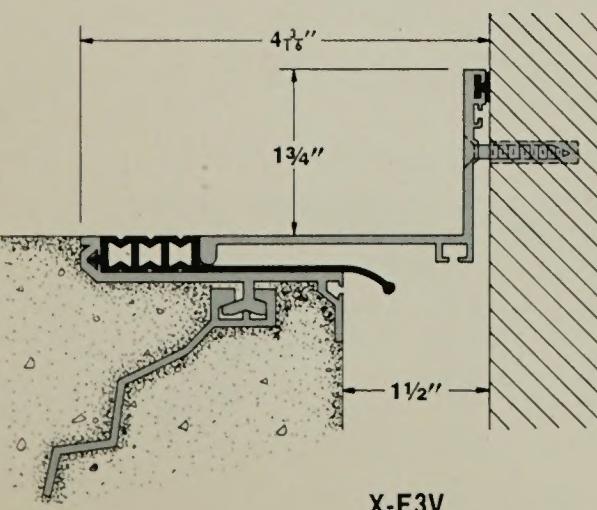
X-A3V (Fluted Plate)
X-B3V (Smooth Plate)
X-C3V (Abrasive Plate)
X-D3V (Abrasive Strips)



X-F3V (Fluted Plate)
X-G3V (Smooth Plate)
X-H3V (Abrasive Plate)
X-J3V (Abrasive Strips)

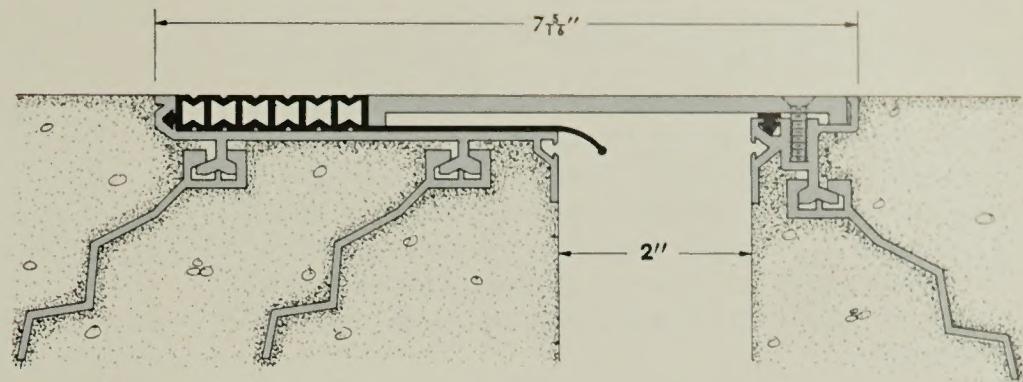


X-T3V (¼" Recess)

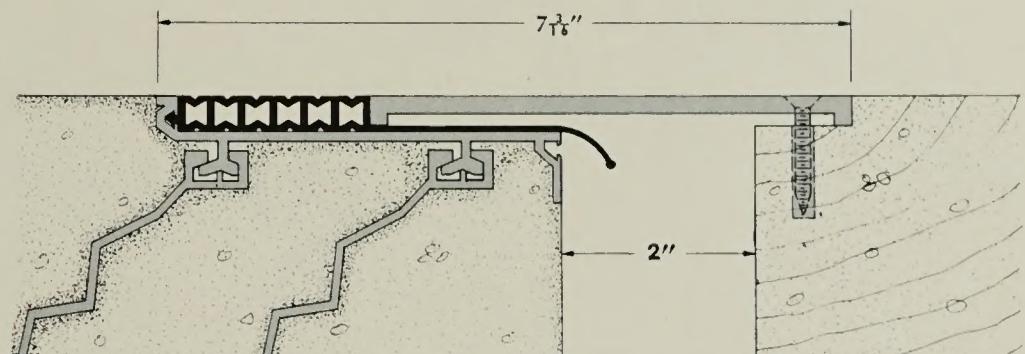


X-E3V

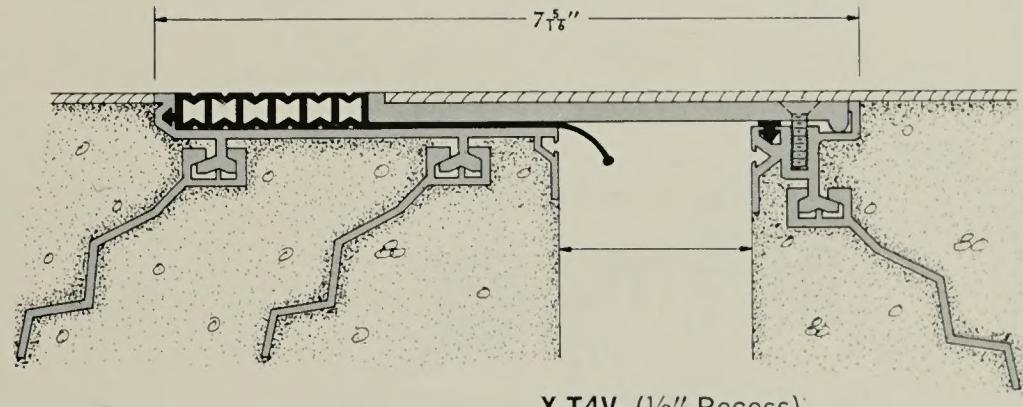
2" expansion



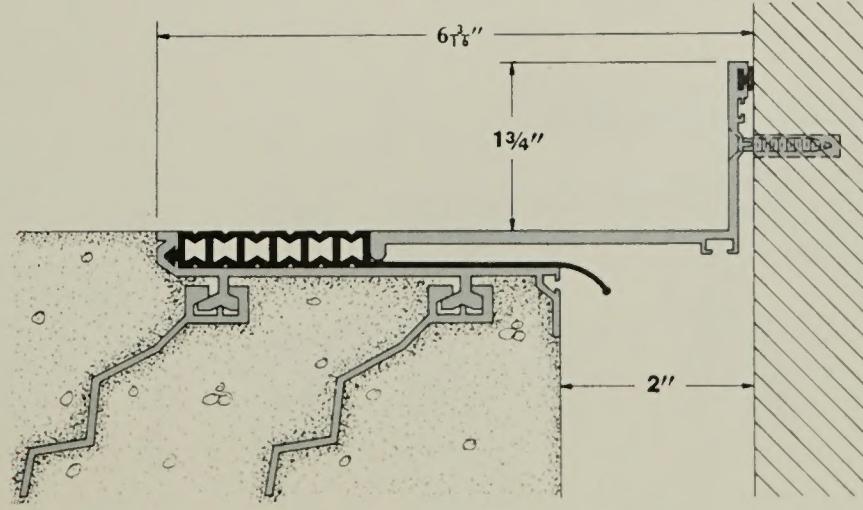
X-B4V (Smooth Plate)
X-C4V (Abrasive Plate)



X-G4V (Smooth Plate)
X-H4V (Abrasive Plate)



X-T4V (¼" Recess)



X-E4V



floor assemblies

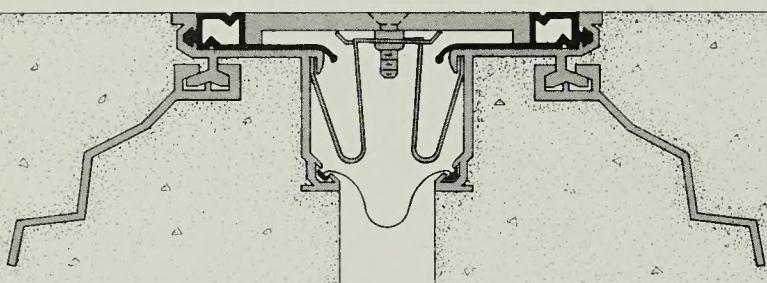
Four-Way movement

1" and 1½" expansion

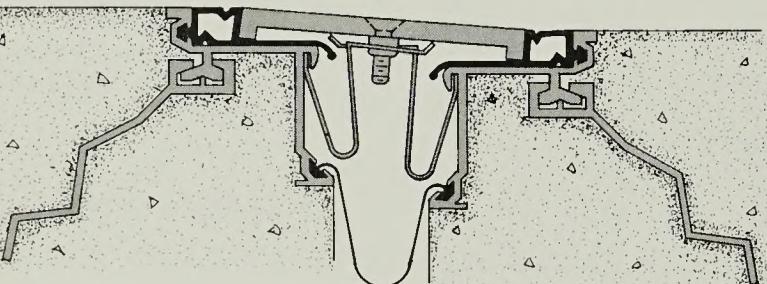
Floor assemblies illustrated provide **Four-Way** movement. The assemblies are designed for easy installation and neat appearance. The stainless steel spring clips are designed to keep cover plate centered in all positions and eliminate projections at edge of plate. Vinyl filler strips are locked into the aluminum extrusion and will expand and compress with building movement.

Companion wall and ceiling assemblies are available as shown on pages 6 and 7.

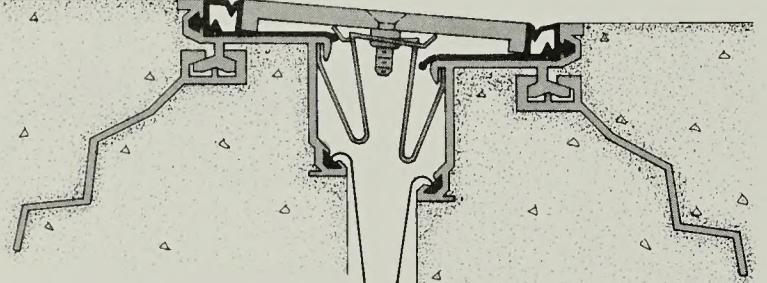
NORMAL



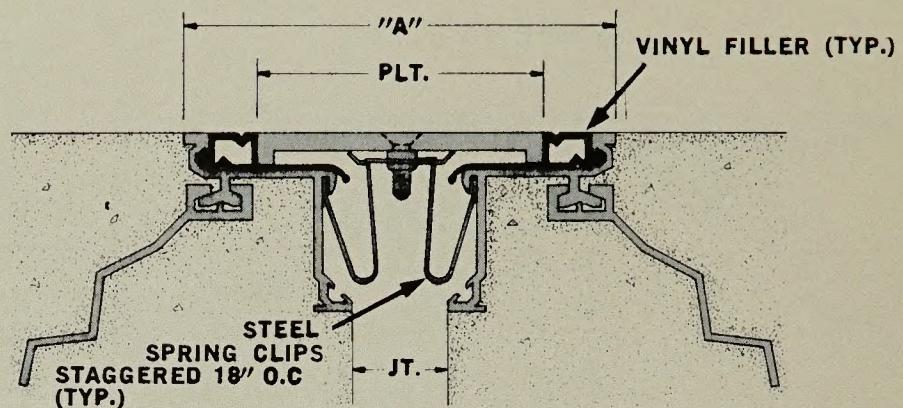
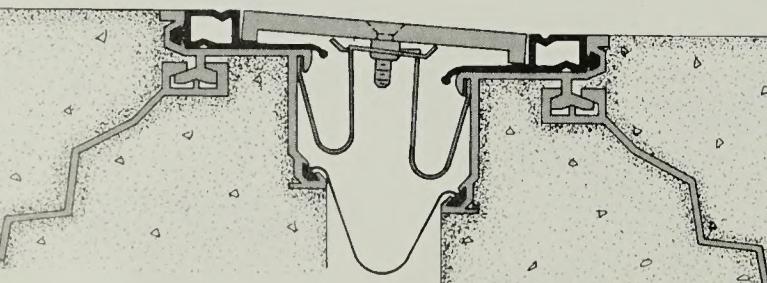
UP/DOWN



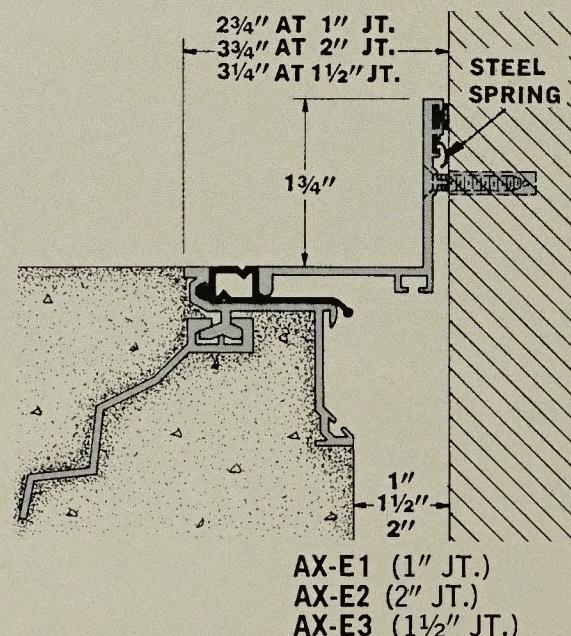
IN/UP/DOWN



OUT/UP/DOWN

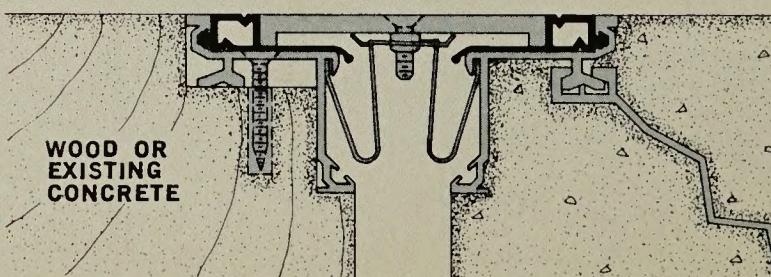


| plate surface | joint | plt.dim. | "A" dim | style |
|----------------------|-------|----------|---------|-------|
| fluted | 1" | 3" | 4½" | AX-A1 |
| | 2" | 4" | 5½" | AX-A2 |
| | 1½" | 3" | 5" | AX-A3 |
| smooth | 1" | 3" | 4½" | AX-B1 |
| | 2" | 4" | 5½" | AX-B2 |
| | 1½" | 3" | 5" | AX-B3 |
| abrasive surface | 1" | 3" | 4½" | AX-C1 |
| | 2" | 4" | 5½" | AX-C2 |
| | 1½" | 3" | 5" | AX-C3 |
| abrasive strips | 1" | 3" | 4½" | AX-D1 |
| | 2" | 4" | 5½" | AX-D2 |
| | 1½" | 3" | 5" | AX-D3 |
| 1/8" recess for tile | 1" | 3" | 4½" | AX-T1 |
| | 2" | 4" | 5½" | AX-T2 |
| | 1½" | 3" | 5" | AX-T3 |
| ribbed | 1" | 3" | 4½" | AX-P1 |
| | 1½" | 3" | 5" | AX-P3 |



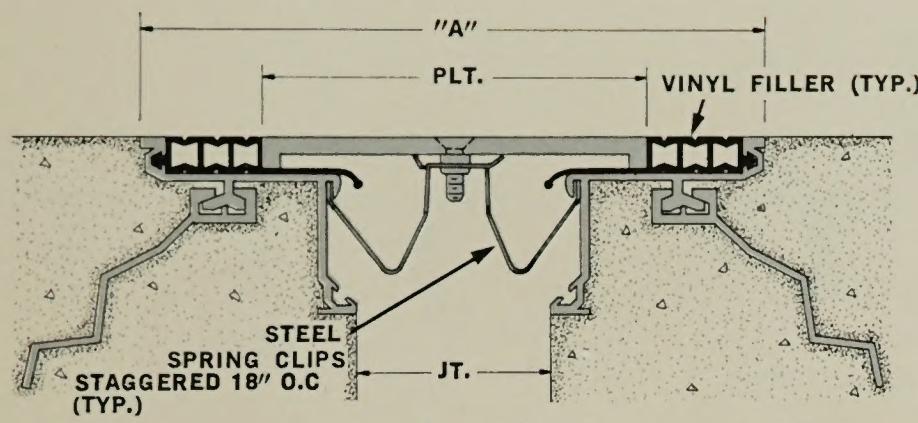
AX-E1 (1" JT.)
AX-E2 (2" JT.)
AX-E3 (1½" JT.)

WOOD/CONCRETE INSTALLATION

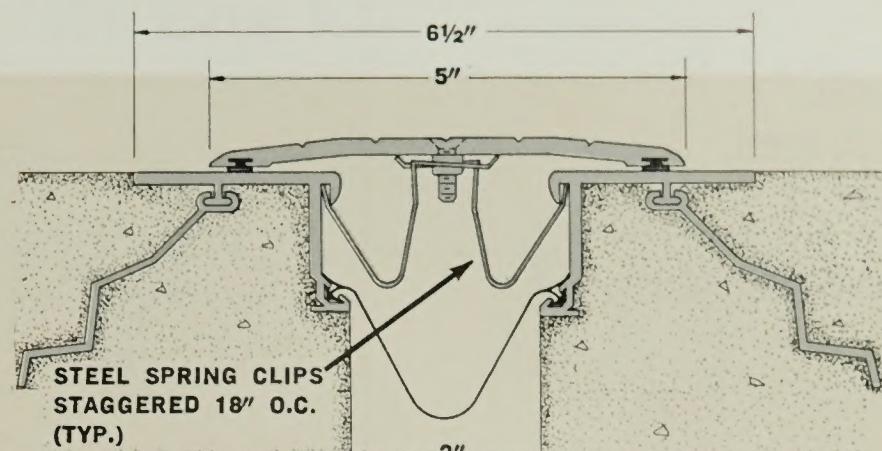
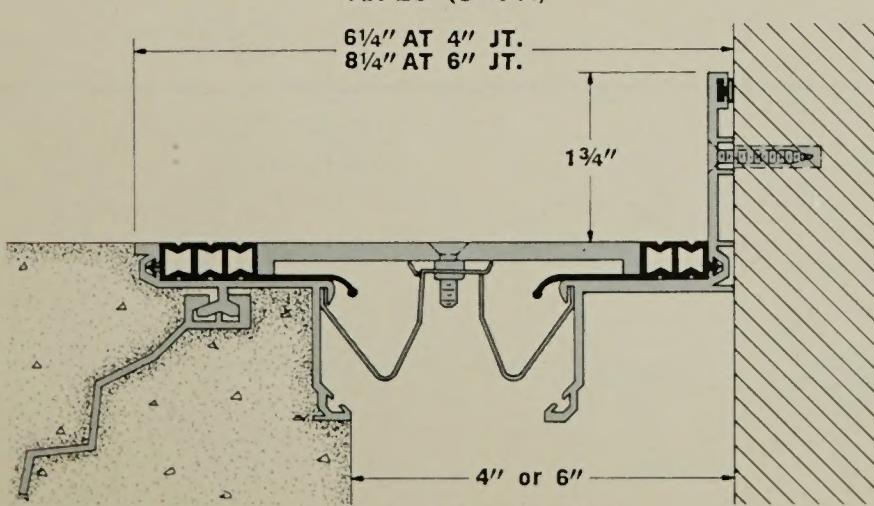
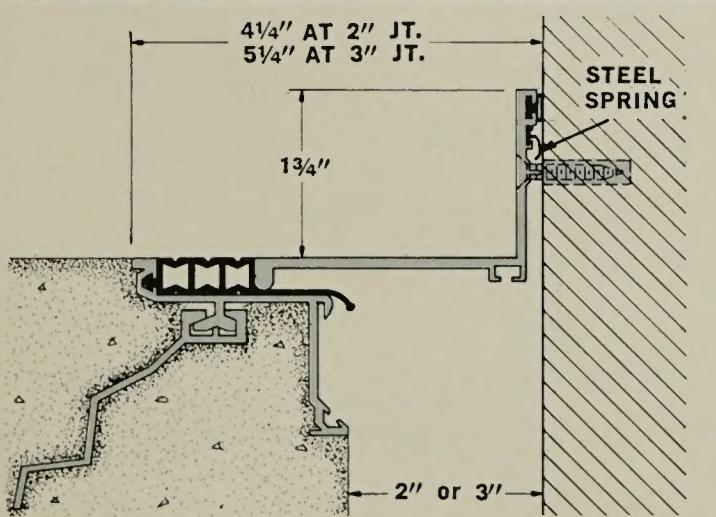


Specify by adding WC after style
For example AX B1(WC)
Available for all floor assemblies on this page
and left column on page 5

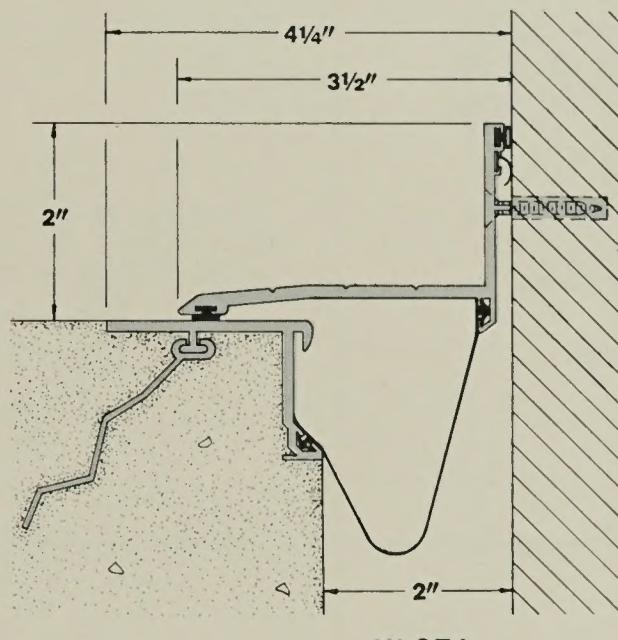
2" expansion



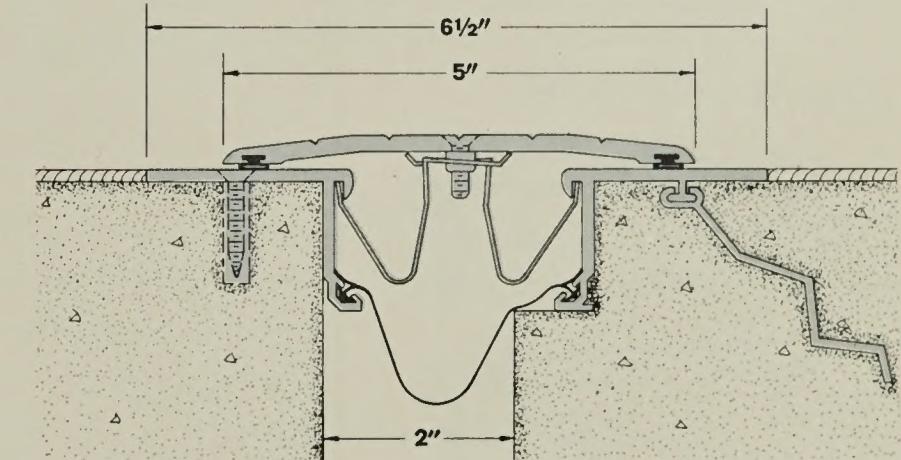
| plate surface | joint | plt. dim. | "A" dim. | style |
|--------------------|-------|-----------|----------|--------|
| fluted | 2" | 4" | 6½" | AX-A4 |
| smooth | 2" | 4" | 6½" | AX-B4 |
| | 3" | 5" | 7½" | AX-B6 |
| | 4" | 6" | 8½" | AX-B8 |
| | 6" | 8" | 10½" | AX-B12 |
| abrasive surface | 2" | 4" | 6½" | AX-C4 |
| | 3" | 5" | 7½" | AX-C6 |
| | 4" | 6" | 8½" | AX-C8 |
| | 6" | 8" | 10½" | AX-C12 |
| abrasive strips | 2" | 4" | 6½" | AX-D4 |
| | 3" | 5" | 7½" | AX-D6 |
| | 4" | 6" | 8½" | AX-D8 |
| ½" recess for tile | 2" | 4" | 6½" | AX-T4 |
| | 3" | 5" | 7½" | AX-T6 |
| | 4" | 6" | 8½" | AX-T8 |
| | 6" | 8" | 10½" | AX-T12 |



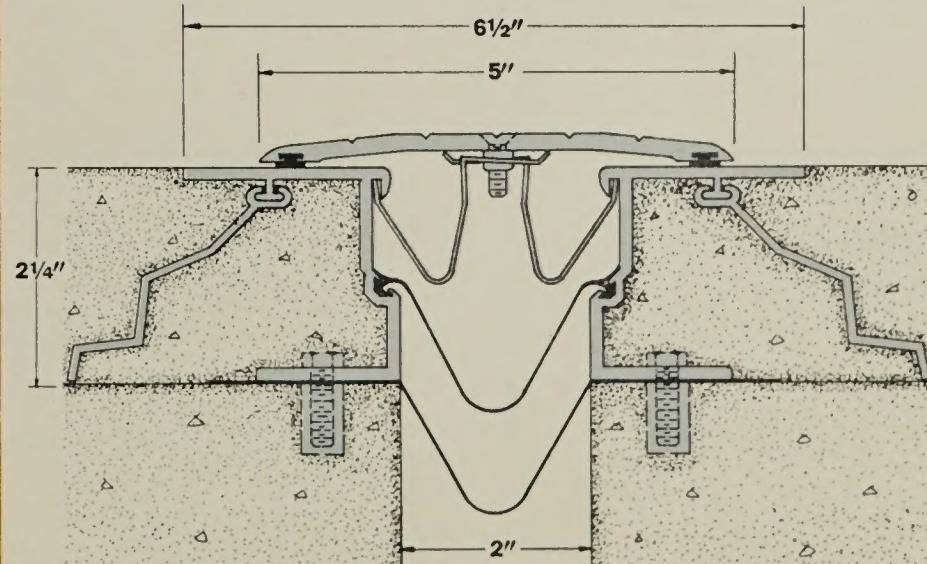
AX-G4 shown with standard $\frac{3}{16}$ " thick cover
AX-G4HD with $\frac{5}{16}$ " thick heavy duty cover



AX-GE4



AX-G4M shown with standard $\frac{3}{16}$ " thick cover
AX-G4MHD with $\frac{5}{16}$ " thick heavy duty cover



AX-J4 shown with standard $\frac{3}{16}$ " thick cover
AX-J4HD with $\frac{5}{16}$ " thick heavy duty cover

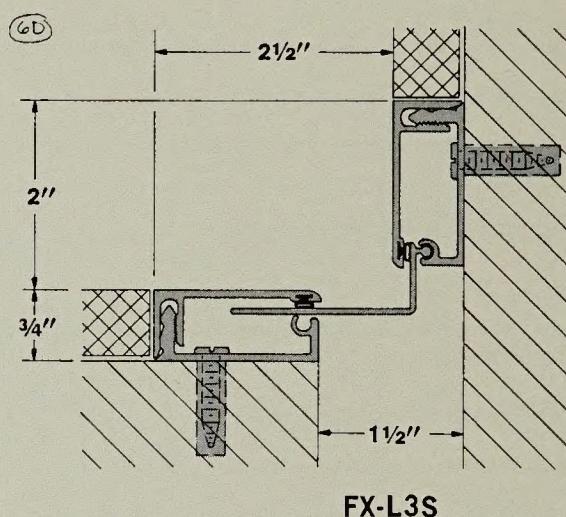
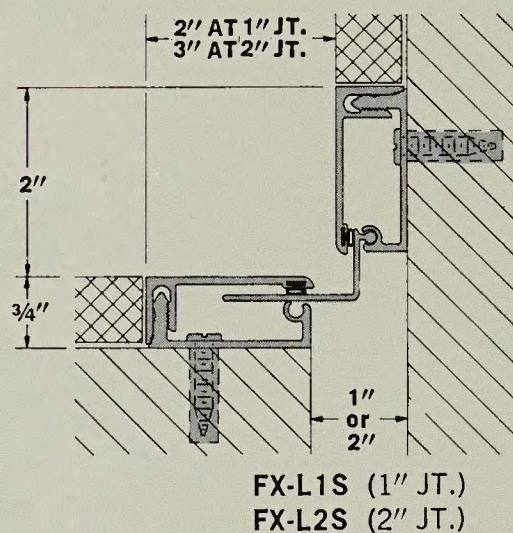
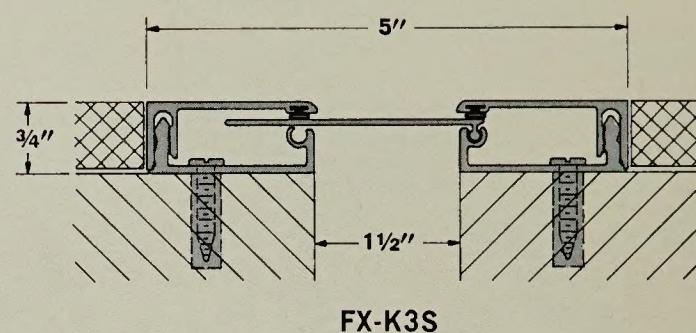
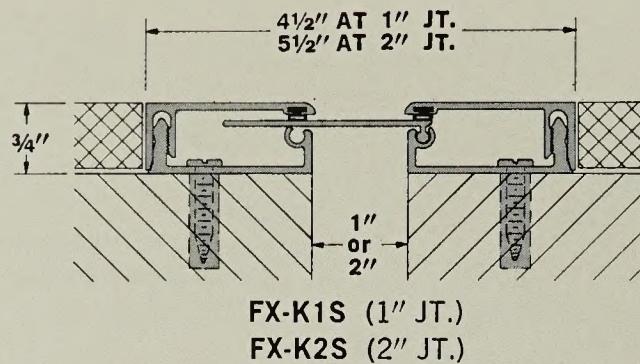


wall and ceiling assemblies

1 and 1½" expansion

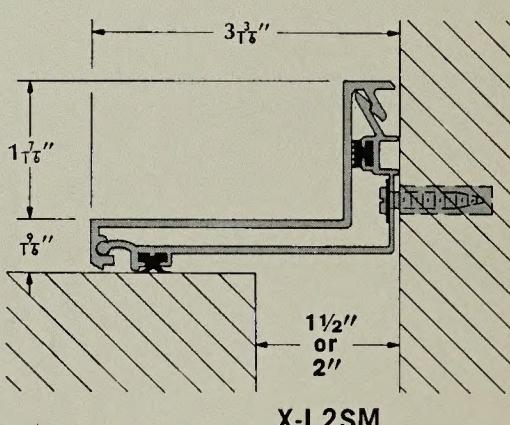
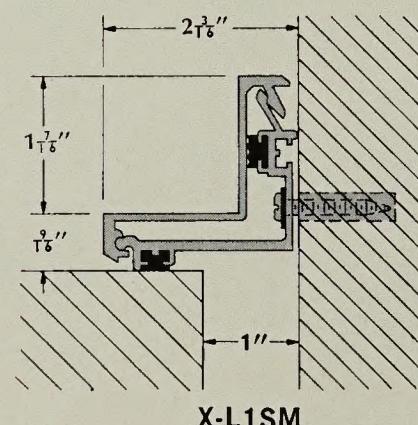
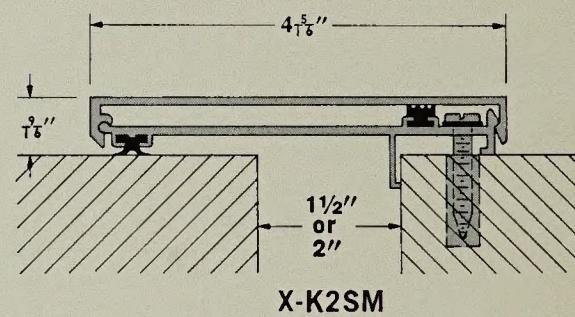
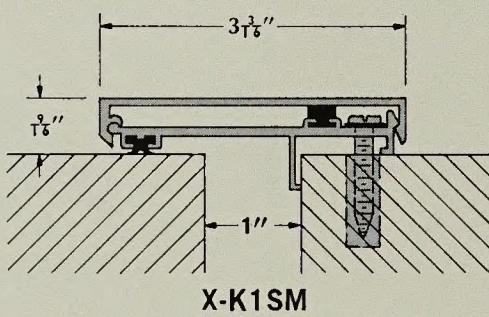
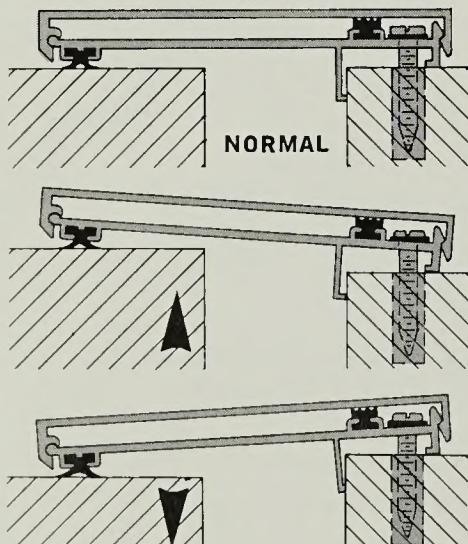
flush
mounted
covers

Four-Way Movement

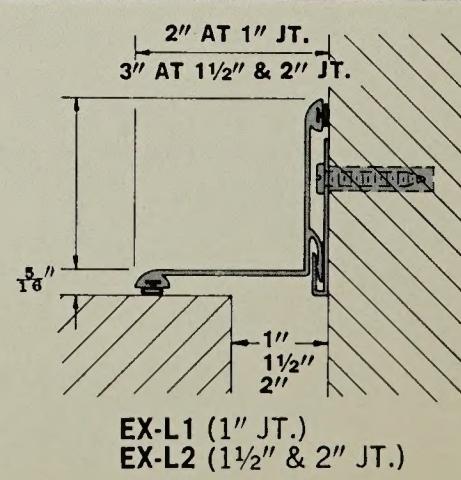
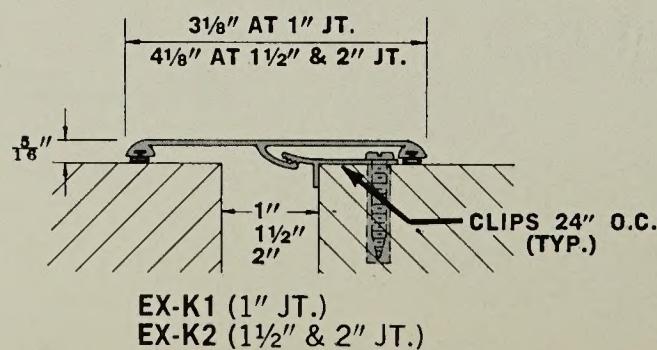


surface
mounted
covers

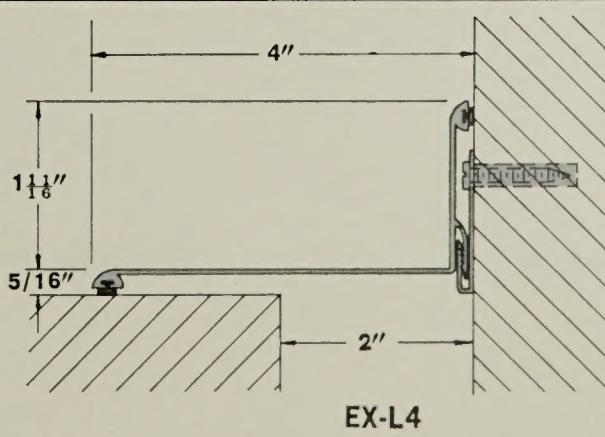
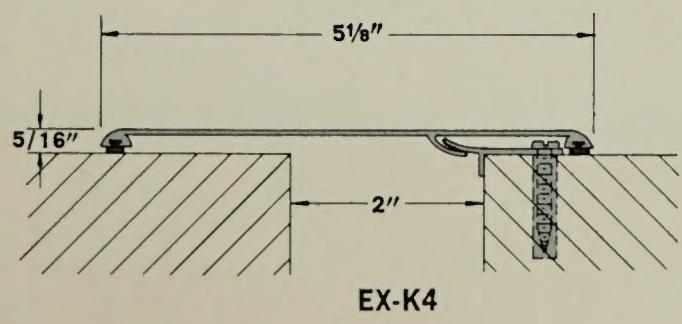
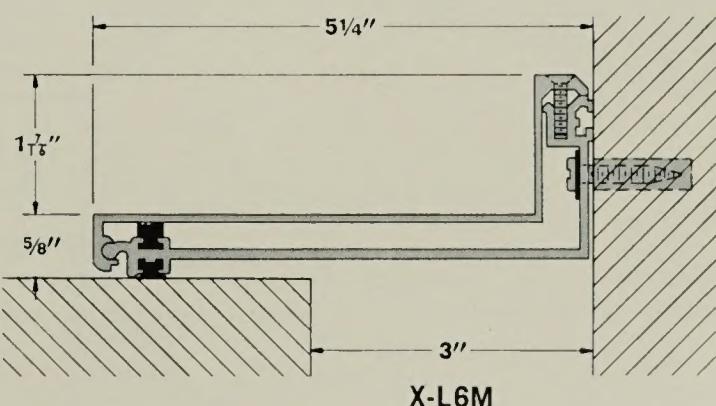
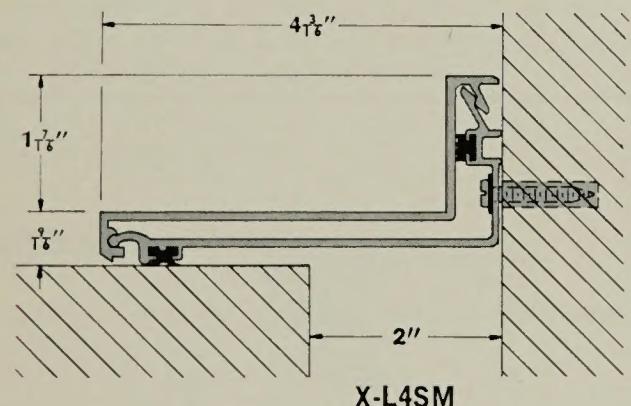
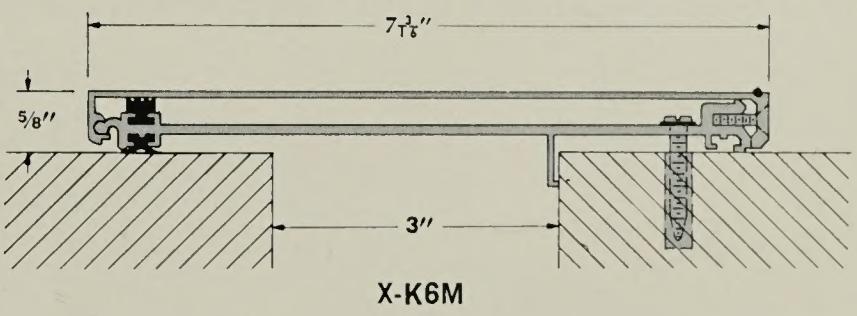
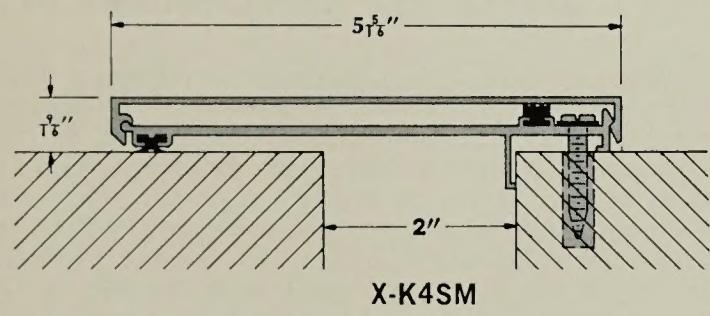
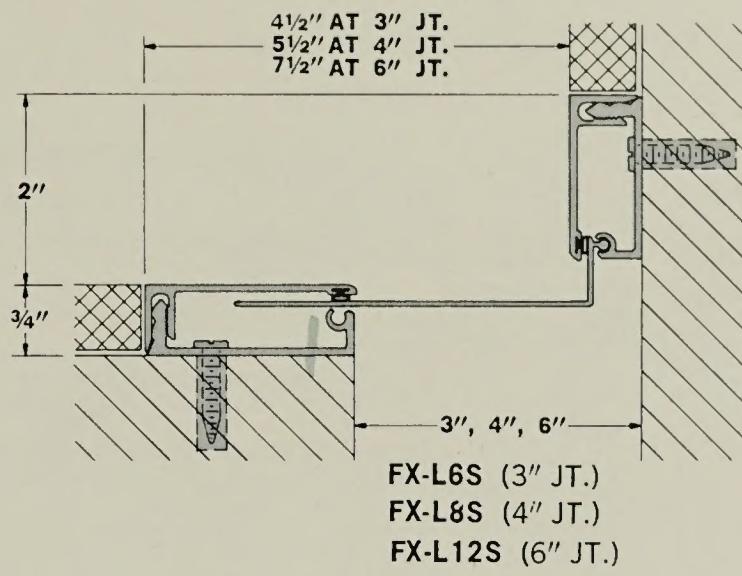
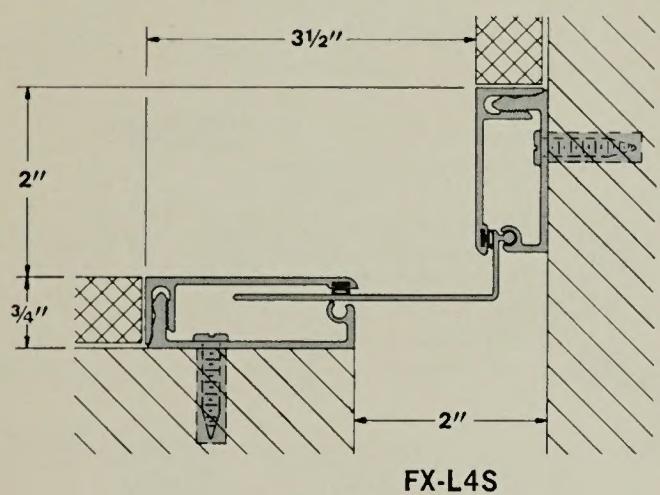
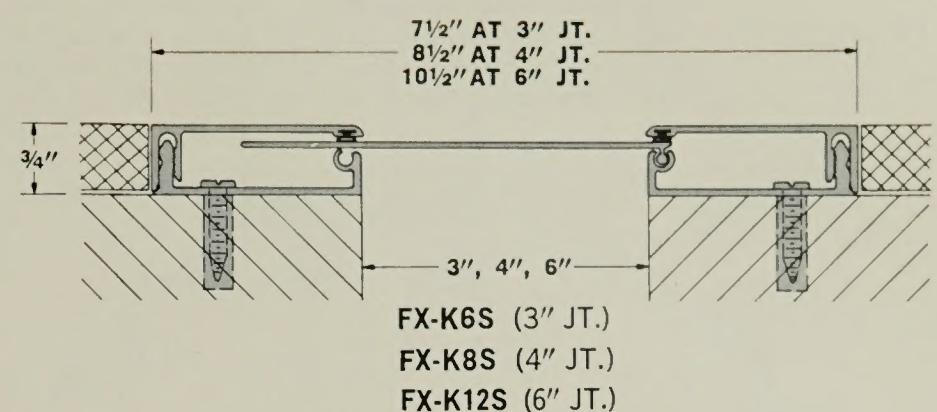
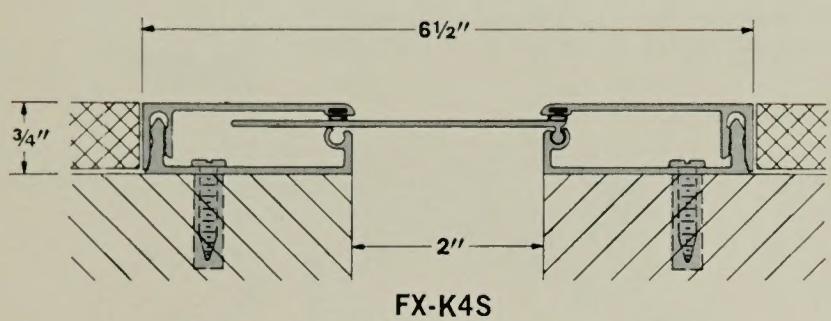
Four-Way Movement



surface
mounted
covers



2" expansion



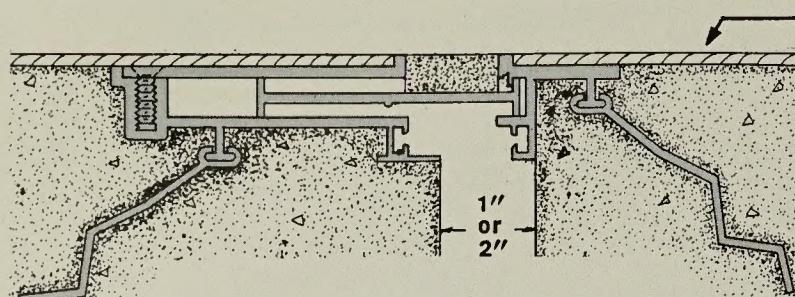


floor assemblies

Four-Way movement

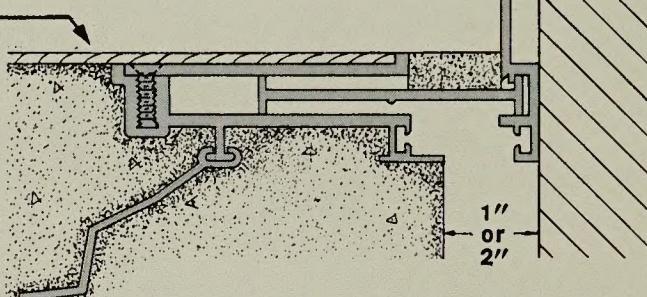
1" and 2" expansion

Assemblies illustrated have been designed with cover plates recessed to accommodate floor finishes ranging from $\frac{1}{8}$ " tile to 1 $\frac{1}{2}$ " terrazzo. Assembly cover plates may be readily modified to receive other thicknesses of floor finish material. Cork filler strip is standard. Vinyl filler is optional for $\frac{1}{8}$ " recess only.



FX-T1 (1" JT.)

FX-T2 (2" JT.)

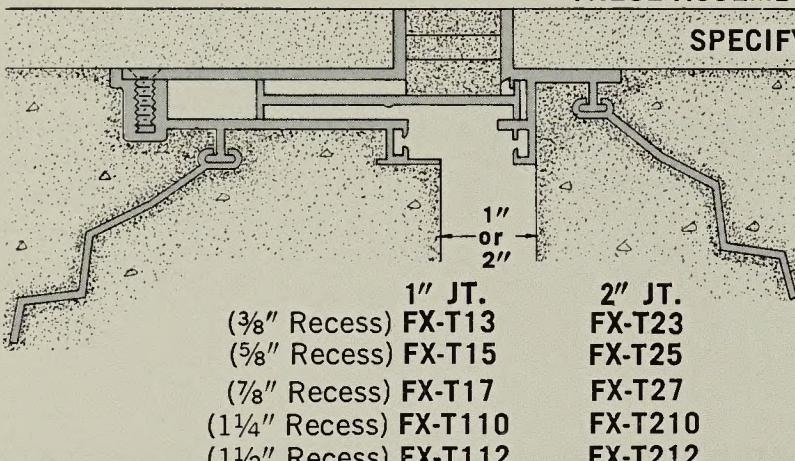


FX-E1T (1" JT.)

FX-E2T (2" JT.)

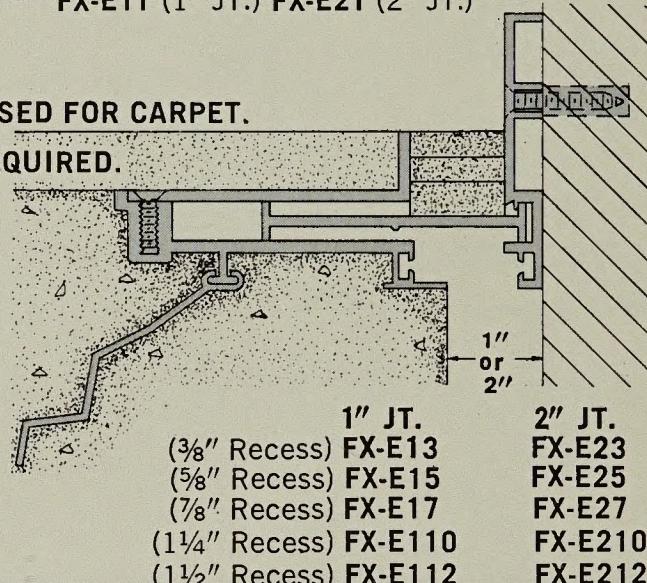
THESE ASSEMBLIES ALSO USED FOR CARPET.

SPECIFY RECESS REQUIRED.



1" JT.
($\frac{3}{8}$ " Recess) FX-T13
($\frac{5}{8}$ " Recess) FX-T15
($\frac{7}{8}$ " Recess) FX-T17
(1 $\frac{1}{4}$ " Recess) FX-T110
(1 $\frac{1}{2}$ " Recess) FX-T112

2" JT.
FX-T23
FX-T25
FX-T27
FX-T210
FX-T212

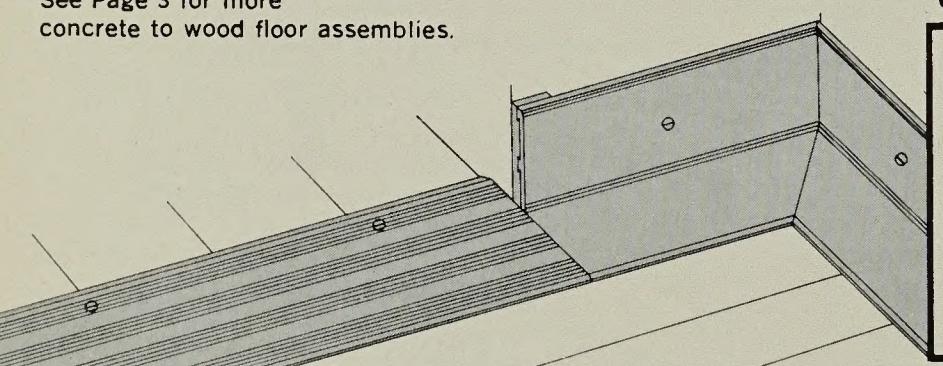


1" JT.
($\frac{3}{8}$ " Recess) FX-E13
($\frac{5}{8}$ " Recess) FX-E15
($\frac{7}{8}$ " Recess) FX-E17
(1 $\frac{1}{4}$ " Recess) FX-E110
(1 $\frac{1}{2}$ " Recess) FX-E112

2" JT.
FX-E23
FX-E25
FX-E27
FX-E210
FX-E212

gymnasium floor assemblies for 1 $\frac{1}{2}$ " and 2" expansion

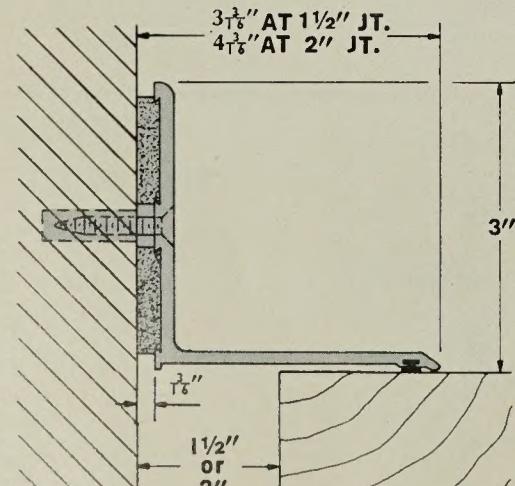
See Page 3 for more concrete to wood floor assemblies.



GYM FLOOR ASSEMBLIES ARE 6063-T5 ALUMINUM WITH MILL FINISH

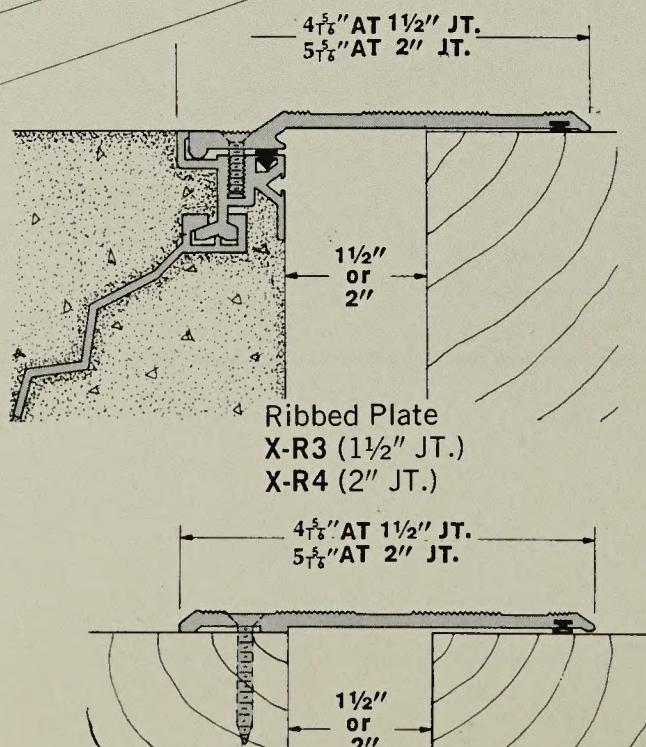
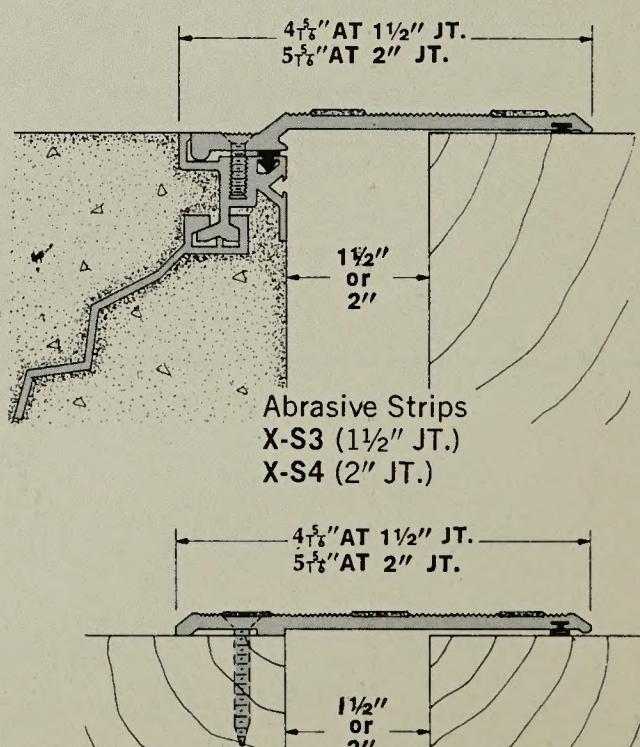
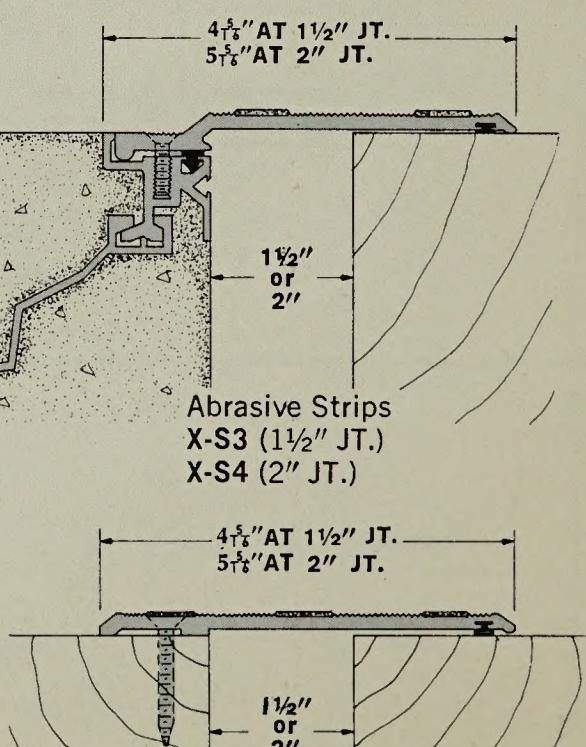
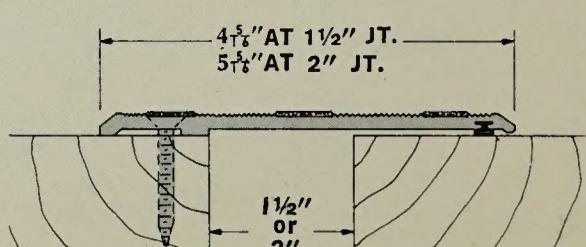
The design of Gym Floor Expansion Joint Covers requires cork spacers as shown to be placed at each anchor screw, thereby allowing $\frac{3}{16}$ " air space between the wall and cover. By properly placing the cork between the cover and wall, vertical movement in the floor will not allow the anchor to become loose since the cork will expand for upward movement of the floor. Since the cork is under slight pressure, the cover will also remain firm and tight if the floor should drop or move to a lower elevation. Vinyl inserts not only cushion covers against vibrations of the gym floors, thus preventing loosening of anchors, but also act as moisture seals and prevent the covers from marring the surface of the floors. At corners, the normal installation requires the covers to be mitered and welded on the back side.

Illustration shows a combination of Style X-W3 and Style X-U3, with CW-3 closure at side of opening. Note the continuity of the beveled edges and the flush surface of the covers.



X-W3 (1 1/2" JT.)

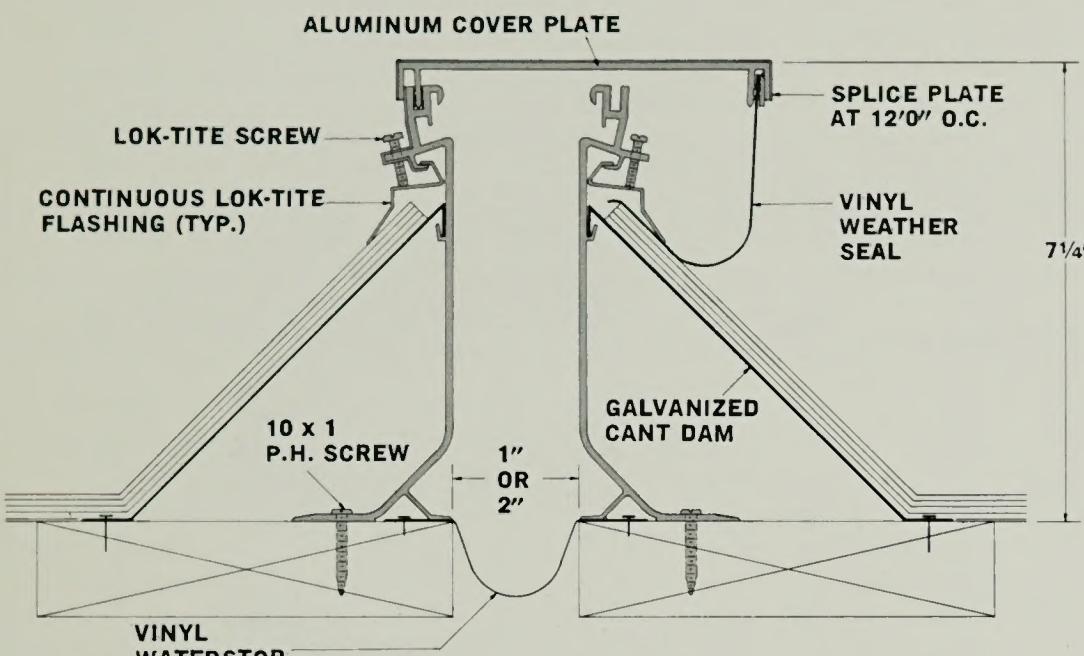
X-W4 (2" JT.)

Ribbed Plate
X-R3 (1 1/2" JT.)
X-R4 (2" JT.)Ribbed Plate
X-U3 (1 1/2" JT.)
X-U4 (2" JT.)Abrasive Strips
X-S3 (1 1/2" JT.)
X-S4 (2" JT.)Abrasive Strips
X-V3 (1 1/2" JT.)
X-V4 (2" JT.)

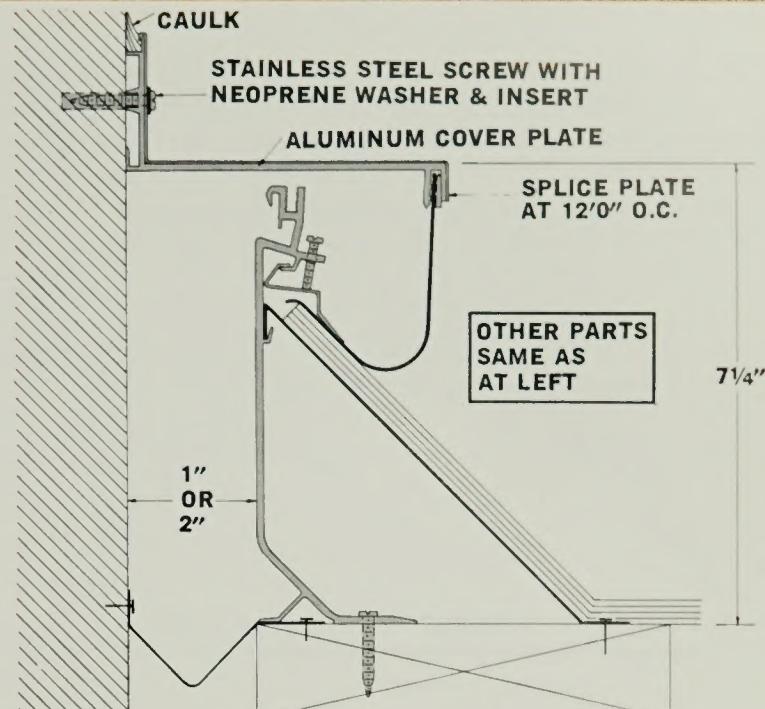
roof assemblies

Four-Way movement

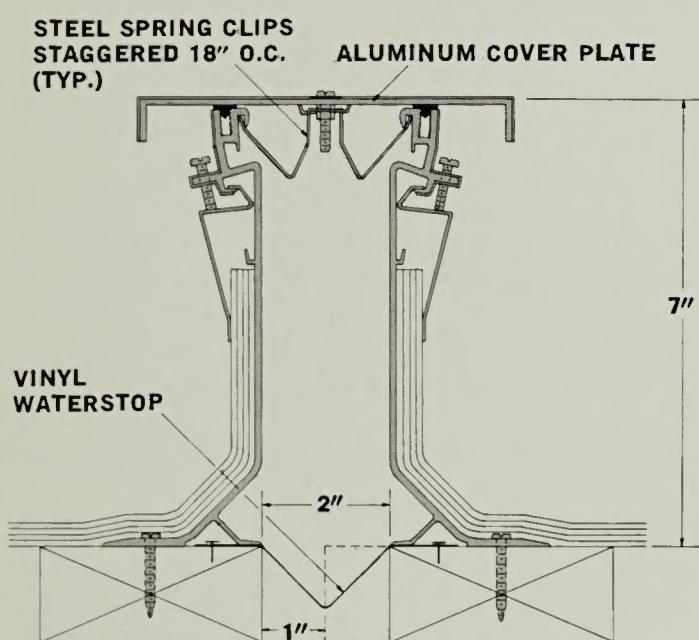
All Assemblies this page are carried in 12'-0" stock lengths, but can be cut to exact length required for job conditions. End closures also available if required



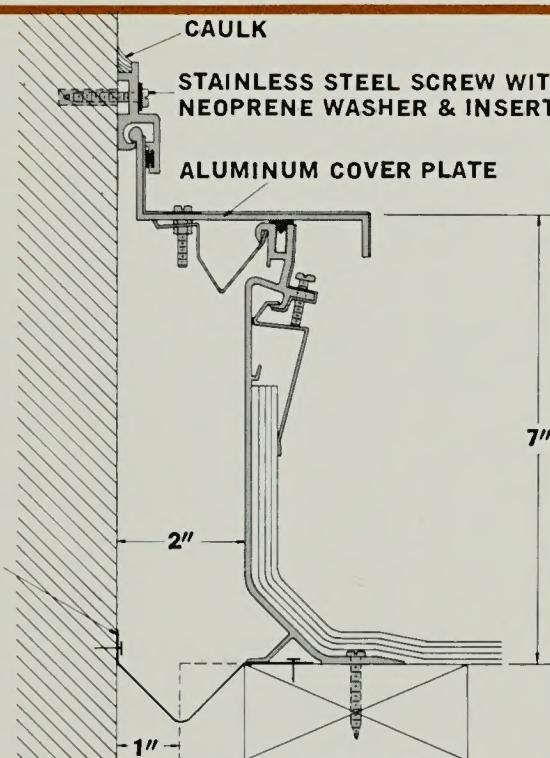
RX-K1S (1"JT.) WITHOUT CANT
RX-K1C (1"JT.) WITH CANT (AS SHOWN)
RX-K2S (2"JT.) WITHOUT CANT
RX-K2C (2"JT.) WITH CANT (AS SHOWN)



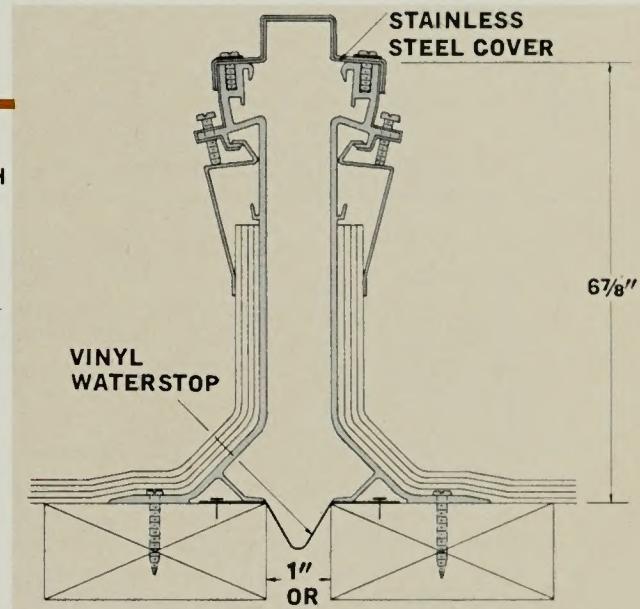
RX-L1S (1"JT.) WITHOUT CANT
RX-L1C (1"JT.) WITH CANT (AS SHOWN)
RX-L2S (2"JT.) WITHOUT CANT
RX-L2C (2"JT.) WITH CANT (AS SHOWN)



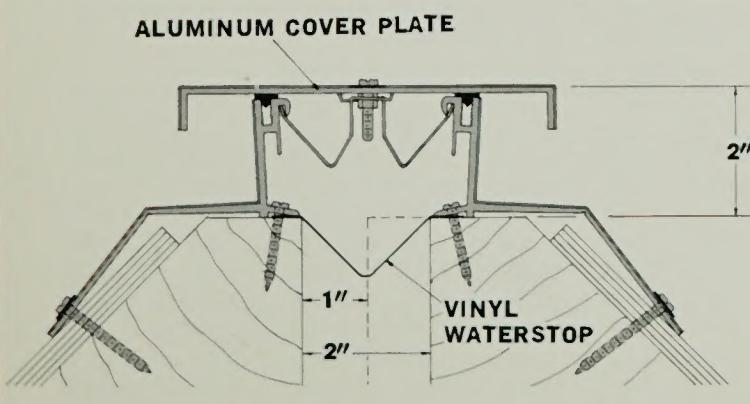
RX-R1S (1"JT.) WITHOUT CANT (AS SHOWN)
RX-R1C (1"JT.) WITH CANT
RX-R2S (2"JT.) WITHOUT CANT (AS SHOWN)
RX-R2C (2"JT.) WITH CANT



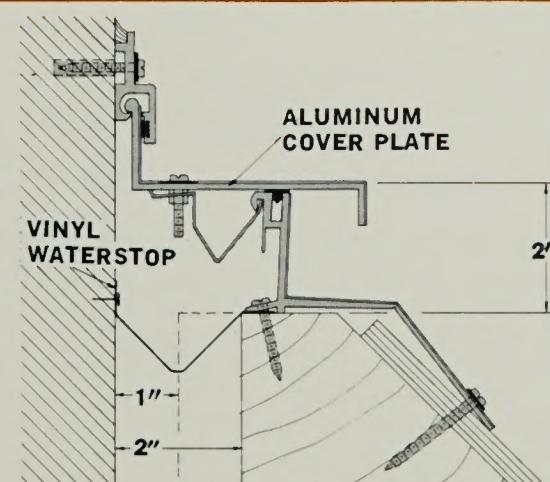
RX-W1S (1"JT.) WITHOUT CANT (AS SHOWN)
RX-W1C (1"JT.) WITH CANT
RX-W2S (2"JT.) WITHOUT CANT (AS SHOWN)
RX-W2C (2"JT.) WITH CANT



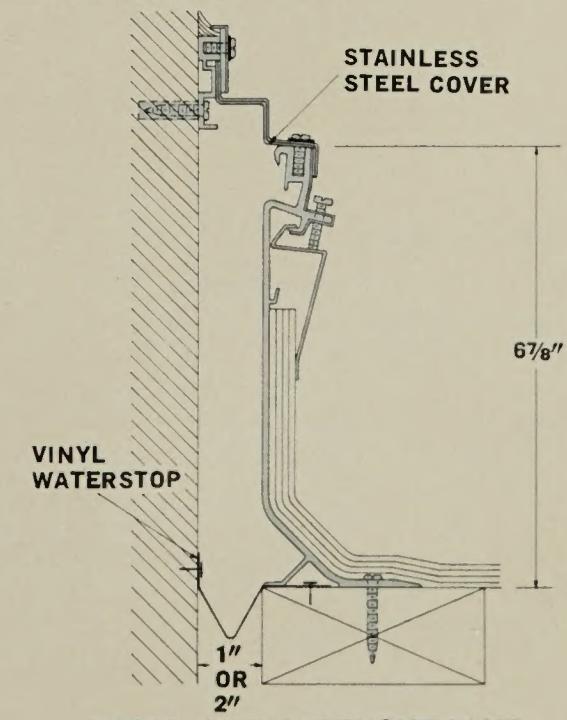
RX-A1S (1"JT.) WITHOUT CANT (AS SHOWN)
RX-A1C (1"JT.) WITH CANT
RX-A2S (2"JT.) WITHOUT CANT (AS SHOWN)
RX-A2C (2"JT.) WITH CANT



RX-H1S (1"JT.)
RX-H2S (2"JT.)



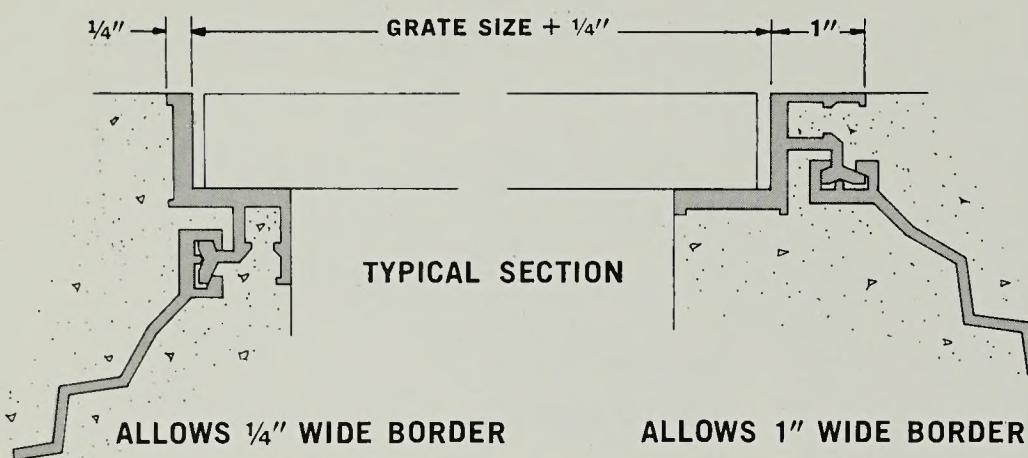
RX-J1S (1"JT.)
RX-J2S (2"JT.)



RX-C1S (1"JT.) WITHOUT CANT (AS SHOWN)
RX-C1C (1"JT.) WITH CANT
RX-C2S (2"JT.) WITHOUT CANT (AS SHOWN)
RX-C2C (2"JT.) WITH CANT

other products

GRATE FRAMES



ALLOWS 1/4" WIDE BORDER

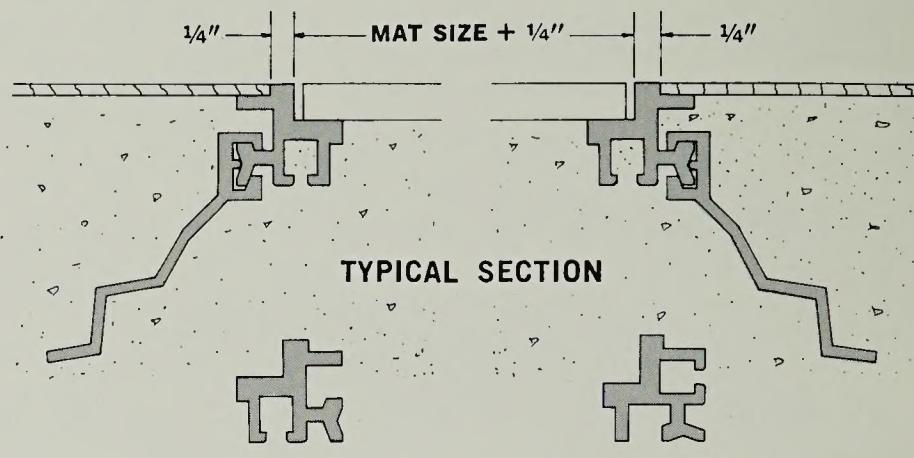
GF-880 FOR 1" GRATE WITH 1" BEARING GF-881

GF-1080 FOR 1 1/4" GRATE WITH 1 1/4" BEARING GF-1081

GF-1280 FOR 1 1/2" GRATE WITH 1 1/2" BEARING GF-1281

ALLOWS 1" WIDE BORDER

MAT RECESS FRAMES



TYPICAL SECTION

MF-386
for 3/8" mat

MF-587
for 7/16" mat

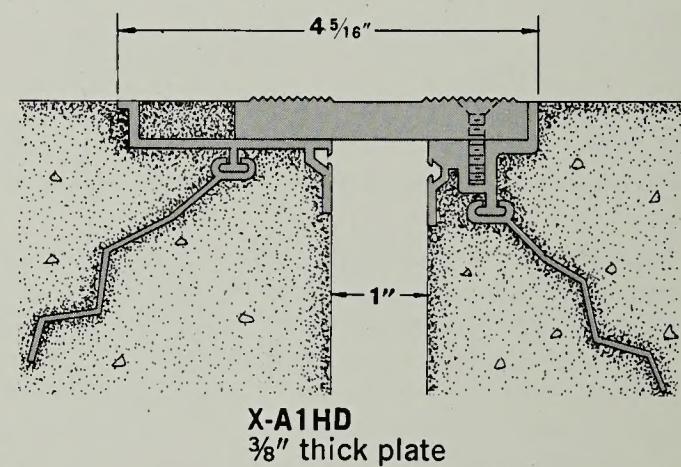
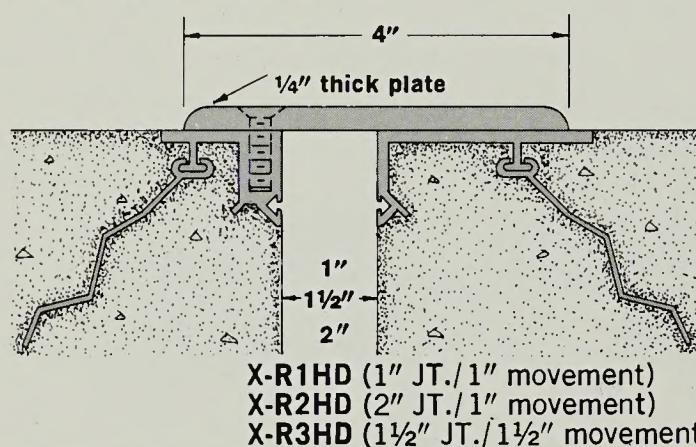
MF-488
for 1/2" mat

MF-5810
for 5/8" mat

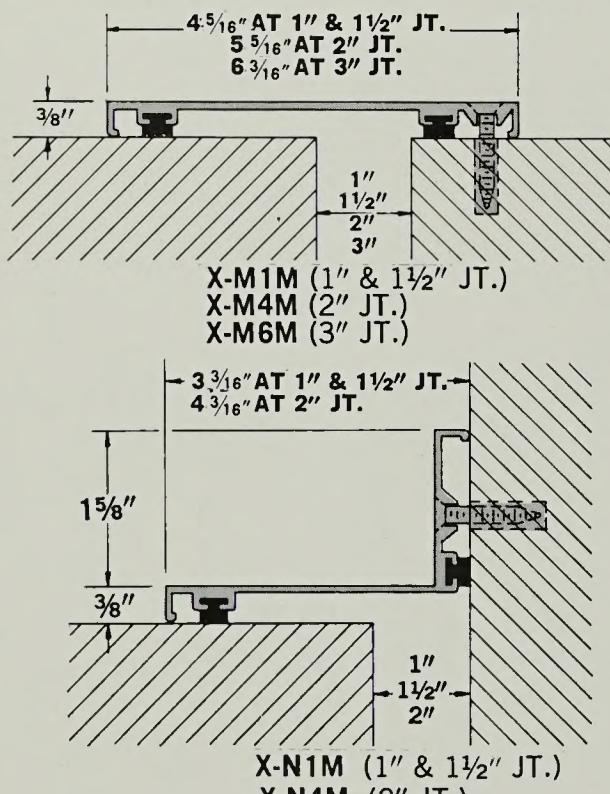
Order or specify by frame type and also grate or mat size. Example: Type GF-880 frame for 2'-0" x 6'-0" grate.

Grate Frames and Mat Recess Frames are shipped knocked down and are complete with M-55 anchors, shop mitered corners and corner key KY-1. Frames are fabricated to sizes required; however, fabricated pieces or stock lengths of 20'-0" can also be furnished. The SM-55 splice connector allows frames over 20'-0" long to be used if required.

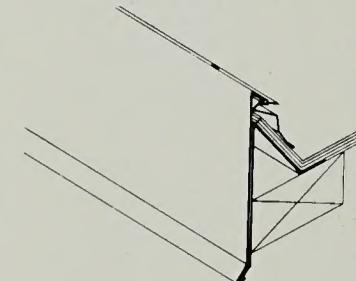
HEAVY DUTY COVERS



ECONO-COVERS



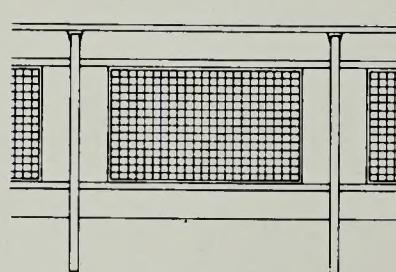
ALUMINUM FASCIA



U.S. Patent Nos. 3,270,474—
3,390,501—3,425,172—3,624,973
Other Patents Pending

We reserve the right
to revise or withdraw
any designs without notice.

ALUMINUM HANDRAIL



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